



DOE ENERGY STORAGE SYSTEMS RESEARCH PROGRAM ANNUAL PEER REVIEW



November 2 – 3, 2006
Washington Marriott Hotel, Washington, D.C. (USA)

AGENDA

Thursday, November 2 (West End, Ballroom A,B&C)

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| 7:30 am | Continental Breakfast (Meeting Room Foyer) |
| 8:30 | Welcome and Overview – Dr. Imre Gyuk, DOE |
| 8:40 | DOE Perspective – DOE, (TBD) |
| 9:00 | ESS Program Overview – John Boyes, Sandia National Laboratories |
| 9:20 | NAS Battery Performance at Charleston, WV – Ali Nourai, AEP Corp. |
| 9:40 | Evaluation of the Kauai System for Storage Potential and Implementation
– Mike Yamane, Kauai Island Utility Co-operative; Abbas Akhil, Sandia National Laboratories |
| 10:00 | Iowa Stored Energy Plant – Bob Haug, Iowa Stored Energy Plant Agency |
| 10:20 | <i>BREAK</i> |
| 10:40 | Boeing Superconducting Flywheel Development – Philip Johnson, Boeing |
| 11:00 | Bipolar Nickel Metal Hydride Battery Development and Testing – James Landi, EEI |
| 11:20 | Nanomaterials for Ultracapacitors – Amit Singhal, NEI Corporation |
| 11:40 | Lead-Carbon Devices for Energy Storage – Ben Craft, MeadWestVaco |
| 12:00 | <i>LUNCH (on your own)</i> |
| 1:20 pm | Laboratory-scale FACTS Controller Development
– Dr. Mariesa Crow, Univ. of Missouri, Rolla |
| 1:40 | Low Cost, High Current Advanced Inverter Packaging with Integral, Liquid-Cooled Heat Exchanger – Larry Rinehart, Rinehart Motions |
| 2:00 | ETO Device, Converter, and Controls Development – Dr. Alex Huang, NC State Univ. |
| 2:20 | <i>BREAK</i> |
| 2:40 | Advanced Power Converter System Using High Temperature, High Power Density SiC
– Dr. Timothy Lin, Aegis Technology |
| 3:00 | Optically Isolated, High-voltage, IGBT-based Inverter for DER Applications
– Paul G. Duncan, Airak |
| 3:20 | High Temp and High Power Density SiC Power Electronic Converters
– Dr. Alexander B. Lostetter, APEI; Presented by Dr. Roberto Schupbach, APEI |
| 3:40 – 5:00 | <i>MINI-MEETING</i> – “Energy Storage for Renewable Applications” (organized by ESA) |
| 5:00 – 7:00 | <i>RECEPTION</i> – Host: Electricity Storage Assoc. (ESA) |

Friday, November 3 (West End, Ballroom A,B&C)

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| 7:30 am | Continental Breakfast (Meeting Room Foyer) |
| 8:20 | EESAT 2007 Information – Georgianne Peek, Sandia National Laboratories |
| 8:30 | Ultracapacitor EnergyBridge™ UPS for Palmdale Water District
– Chris McKay, Northern Power |
| 8:50 | Flywheel-based Frequency Regulation Demonstration Projects for CEC, NYSERDA and DOE – Jim Arseneaux, Beacon Power |
| 9:10 | Design of the FESS 20 MW Frequency Regulation Plant – Rob Rounds, Beacon Power |
| 9:30 | NYPA NAS BESS at the Long Island Bus Facility – Yan Kishinevsky, NY Power Authority |
| 9:50 | <i>BREAK</i> |
| 10:10 | NYSERDA/DOE Energy Storage Initiative Data Management and Analysis
– Jeff Lamoree, EnerNex Corp. |
| 10:30 | Web-based Energy Storage Monitoring on CEC Projects – Doug Dorr, EPRI |
| 10:50 | Testing and Evaluation of Energy Storage Devices – Tom Hund, Sandia National Laboratories |
| 11:10 | Advanced Lead-Acid Battery Improvement Studies – Pat Moseley, ILZRO |
| 11:30 | <i>LUNCH (on your own)</i> |
| 12:50 pm | Hybrid Sim Model Applications – David Trujillo, Sandia National Laboratories;
Presented by Dr. Jasprit Singh, Univ. of Michigan. |
| 1:10 | Overcoming Transmission Constraints: Energy Storage and Wyoming Wind Power – Mindi Farber de Anda, SAIC; Presented by: John Boyes, Sandia National Laboratories |
| 1:30 | Benefit / Cost Framework for Evaluating Modular Electricity Storage
– Jim Eyer, DUA; Presented by Ben Norris, DUA |
| 1:50 | What’s New?

Sprint , Kevin Kenney

Emerson Network Power , Paul Misar |
| 2:10 | CONCLUSIONS – Dr. Imre Gyuk and John Boyes |